

FEATURES	Location/Qualifiers
source	1. .90 /organism="unknown"
BASE COUNT	14 a 30 c 40 g 6 t
ORIGIN	
Query Match	100.0% Score 90; DB 6; Length 90; Best Local Similarity 100.0%; Pred. No. 2.e-11; Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	1 GGGAGACGGCGCGGTTGGCGCGCAGACCAAGGACGGGGATCCACTCGACA 60
Db	1 GGAGACGGCGCGGCTGGCGCGCAGACCAAGGACGGGGATCCACTCGACA 60
Qy	61 GCAGGCCACAGGTGGCCGGAGGGTGG 90
Db	1 GGGAGACGGCGCGGCTGGCGCGCAGACCAAGGACGGGGATCCACTCGACA 60
RESULT 2	HUMPRAPP 256 bp mRNA, linear PRI 08-JAN-1995 LOCUS Human amyloid beta precursor protein (ABPP) mRNA, 5' end. DEFINITION M55675_1 GI:1903036 VERSION M55675_1 KEYWORDS anyloid beta. SOURCE Human fetal muscle, cDNA to mRNA, clone lambda-HAPP. ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. Mita,S., Sadlock,J., Herbert,J. and Schon,E.A. A cDNA specifying the human amyloid beta precursor protein (ABPP) encodes a 95-kDa polypeptide Nucleic Acids Res. 16 (19), 9351 (1988) 6901664/ 3140222
FEATURES	Location/Qualifiers
source	1. .256 /organism="Homo sapiens" /db_xref="taxon:9606" /map="21q21.2" 1. .256 /gene="APP" 8. .>256 /note="anyloid beta precursor protein (ABPP)" /gene="APP" /protein_start=1 /protein_id="AA60163.1" /db_xref="GI:19030307" /db_xref="GDB:1600-119-692" /translation="MKSITSEISVLLIFYNEPEPGRVVSFLGSRREHAERARGPRE TAVAYARAAROGRGSHSHSSALGAAPRRVAMPGLALLL"
gene	
CDS	
BASE COUNT	42 a 77 c 93 g 44 t
ORIGIN	
Query Match	100.0% Score 90; DB 9; Length 256; Best Local Similarity 100.0%; Pred. No. 1.8e-11; Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	1 GGGAGACGGCGCGGCTGGCGCGCAGACCAAGGACGGGGATCCACTCGACA 60
Db	135 GGAGACGGCGCGCAGCTGGCGCGCAGACCAAGGACGGGGATCCACTCGACA 194
Qy	61 GCAGGCCACAGGTGGCCGGAGGGTGG 90
Db	195 GCAGGCCACAGGTGGCCGGAGGGTGG 224
RESULT 3	HOMAMYB01 1154 bp DNA, linear PRI 08-AUG-1995 DEFINITION Human amyloid-beta protein (APP) gene, exon 1. TITLE
REFERENCE	La Fauci, G., Lai, D.K., Salton, S.R. and Robakis, N.K.
Authors	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Organism	1 (bases 1 to 1286)
RESULT 4	HUMAPPB01 1286 bp DNA, linear PRI 31-OCT-1995 LOCUS Human beta-amyloid protein (beta-APP) gene, exon 1. DEFINITION Human beta-amyloid protein (beta-APP) gene, exon 1. ACCESSION M24545 VERSION M24546.1 GI: 341201 KEYWORDS 1 of 2 SEGMENT Homo sapiens (tissue library: of Young) DNA. SOURCE Homo sapiens ORGANISM Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1286)
REFERENCE	Characterization Of the 5'-end region and the first two exons of the APP gene in the human genome.
Authors	La Fauci, G., Lai, D.K., Salton, S.R. and Robakis, N.K.
Organism	1 (bases 1 to 1286)

the beta-protein precursor gene	
JOURNAL Biochim. Biophys. Res. Commun.	159 (1), 297-304 (1989)
MEDLINE 89165870	
PUBLMED 2538123	
LOCUS	
NAME	beta-protein precursor gene
VERSION	1
FEATURES	
source	protein_bind
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	TATA_signal
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	protein_bind
	misc_feature
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264 a 413 c 376 g 233 t
ORIGIN

Query Match 100.0% Score 90; DB 9; Length 1286;
Best Local Similarity 100.0%; Pred. No. 1.3e-11;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0
DEFINITION Homo sapiens, Similar to amyloid bera (A4) precursor protein
(protease nexin II, Alzheimer disease), Clone MGC:10403
IMAGE:1639599, mRNA, complete cds.
ACCESSION BC004369
VERSION BC004369.1 GI:13252511
KEYWORDS MGC.
ORGANISM Homo sapiens.
SOURCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Primates; Catarrini; Homiridae; Homo.
REFERENCE 1 (bases 1 to 1319)
AUTHORS Straussberg,R.
TITLE Direct Submission
JOURNAL Submitted (12-MAR-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT Contact: MGC help desk
Email: cgapbs-request@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LILNL)
DNA Sequencing by: Genome Sequence Centre,
BC Cancer Agency, Vancouver, BC, Canada
info@ogsbc.ca
Steven Jones, Jennifer Asano, Ian Boshet, Yaron Butterfield,
Susanna Chan, Readman Chiu, Chris Field, Erin Garland, Ron Guin,
Leticia Hsiao, Martin Krzywinski, Peter Kutschke, Oliver Lee, Soo
Sen Lee, Victor Ling, Carrie Mathewson, Candice McLeavy, Steven
Ness, Pawan Pandoh, Anna-Luisa Prabhu, Parvaneh Saeedi, Jacqueline
Schein, Duane Smilus, Michael Smith, Loraine Spence, Jeff Scott,
Michael Thorne, Miranada Tsai, Natasha van den Bosch, Jill Vardy,
George Yang, Scott Zuyderduyn, Marco Marras.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LILNL at: http://image.llnl.gov
Series: IRBL Plate: 13 Row: J Column: 14
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 4502166.
FEATURES
source
1..1319
/organism="Homo sapiens"
/strain="9606"
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/clone="MGC:10403 IMAGE:3639599"

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 /clone_lib="NIH_MGC_39"
 /lab_host="DH10B-R"
 /note="vector: pORTB7"
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 KSTNLHDYGMILPCGIDKFCRVEEVFCPLAFESDNDVDSADAEDEDDSPYERWTGADTYA
 DGSEDKYVPEEEYEAEVPEEEADEDDDEGGEDDEEEAPEPYEATERTSISATT
 TTTTSEVEVREWKTEKEVHSQARWML."
 BASE COUNT 353 a 316 c 412 g 238 t
 ORIGIN

Query Match 100.0%; Score 90; DB 9; Length 1319;
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 Db 35 GGGAGACGGCGGCCGTTGGCGGGCGAGCAAGGAGCGCCGATCCACTCGACA 94
 QY 61 GCAGCGCACTCGGTGCCCGCGCAGGGTCG 90
 Db 95 GCAGCGCACTCGGTGCCCGCGCAGGGTCG 124

RESULT 6
 A02759 LOCUS A02759 H.sapiens mRNA for amyloid plaque core protein.
 DEFINITION H.sapiens mRNA for amyloid plaque core protein.
 ACCESSION A02759
 VERSION A02759.1 GI:345130
 KEYWORDS SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrate; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE Mueller-Hill, B., Kang, J., Lemaire, H.G., and Unterbeck, A.
 AUTHORS Mueller-Hill, B., Kang, J., Lemaire, H.G., and Unterbeck, A.
 TITLE Precursor Protein of APP polypeptide, DNA coding therefor and
 diagnostic use of the DNA and protein
 Patent: EP 0276723-A 1 03-AUG-1988;
 BAYER AG
 FEATURES Location/Qualifiers
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 147..2234
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 /db_xref="GI: 345131."
 /db_xref="SWISS-PROT: P05067"
 /translation="MFLPGALLLAAWTARALEVPTDGNAGLLAEPQIAEPMCGRLNMH
 MNVONGKWDSDPSGTKICIDPKIGLIQYCEVYPELQITIVNEANQPTVTLWCKRGR
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 KSTNLHDYGMILPCGIDKFCRVEEVFCPLAFESDNDVDSADAEDEDDSPYERWTGADTYA
 DGSEDKYVPEEEYEAEVPEEEADEDDDEGGEDDEEEAPEPYEATERTSISATT
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 3080..3085

polyA_signal 3089..3094
 polyA_signal 3331..3336
 BASE COUNT 922 a 745 c 867 g 819 t
 ORIGIN

Query Match 100.0%; Score 90; DB 6; Length 3353;
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 Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGAGACGGCGGCCGTTGGCGGGCGAGCAAGGAGCGCCGATCCACTCGACA 60
 Db 55 GGAGACGGCGGCCGTTGGCGGGCGAGCAAGGAGCGCCGATCCACTCGACA 114
 QY 61 GCAGCGCACTCGGTGCCCGCGCAGGGTCG 90
 Db 115 GCAGCGCACTCGGTGCCCGCGCAGGGTCG 144

RESULT 7
 I36121 LOCUS I36121
 DEFINITION Sequence 1 from patent US 5604131.
 ACCESSION I36121
 VERSION I36121.1 GI:2087345
 KEYWORDS SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 3353)
 AUTHORS Wadsworth, S., Snyder, B., Reddy, V.B. and Wei, C.
 TITLE cDNA-genomic DNA hybrid sequence encoding APP770 containing a genomic DNA insert of the K1 and OX-2 regions
 Patent: US 5604131-A 1 18 FEB 1997;
 JOURNAL FEATURES Location/Qualifiers
 SOURCE 1..3353
 /organism="unknown"
 BASE COUNT 922 a 745 c 867 g 819 t
 ORIGIN

Query Match 100.0%; Score 90; DB 6; Length 3353;
 Best Local Similarity 100.0%; Pred. No. 1..1e-11;
 Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGAGACGGCGGCCGTTGGCGGGCGAGCAAGGAGCGCCGATCCACTCGACA 60
 Db 55 GGAGACGGCGGCCGTTGGCGGGCGAGCAAGGAGCGCCGATCCACTCGACA 114
 QY 61 GCAGCGCACTCGGTGCCCGCGCAGGGTCG 90
 Db 115 GCAGCGCACTCGGTGCCCGCGCAGGGTCG 144

RESULT 8
 I66657 LOCUS I66657
 DEFINITION Sequence 12 from patent US 5670634.
 ACCESSION I66657
 VERSION I66657.1 GI:2724635
 KEYWORDS SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 3353)
 AUTHORS Marotta, C.A., Majocha, R.E. and Agrawal, S.
 TITLE Reversal of .beta.-amyloid peptide induced morphological changes in neuronal cells by antisense oligonucleotides
 Patent: US 5670634-A 12 SEP-1997;
 JOURNAL FEATURES Location/Qualifiers
 SOURCE 1..3353
 /organism="unknown"
 BASE COUNT 922 a 745 c 867 g 819 t
 ORIGIN

ORIGIN

Query Match Similarity 100.0%; Score 90; DB 6; Length 8591;
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Matches 90; Conservative 0; Indels 0; Gaps 0;

Qy 1 GGGAGACGGCGGTGGCGGGCAGAGCAAGGACCGGGATCCACTCCACA 60
Db 2301 GGAGACGGCGGTGGCGGGCAGAGCAAGGACCGGGATCCACTCCACA 2360

Qy 61 GCAGGCACCTCGTGTCCCCGCGAGGGTGC 90
Db 2361 GCAGGCACCTCGTGTCCCCGCGAGGGTGC 2390

RESULT 14

LOCUS Sequence 8 from patent US 5656477. 8591 bp DNA linear PAT 07-OCT-1997

DEFINITION Sequence 8 from patent US 5656477.

ACCESSION I60509

VERSION I60509

KEYWORDS SOURCE Unknown

ORGANISM Unclassified

REFERENCE 1 (bases 1 to 8591)
AUTHORS Vitek, M.Peter, and Jacobsen, J.Steven.
TITLE Amyloid precursor proteins and method of using same to assess agents which down-regulate formation of .beta.-amyloid peptide patent: US 5656477-A 8 12 AUG-1997;
Location/Qualifiers

JOURNAL SOURCE

FEATURES SOURCE /organism="unknown"

BASE COUNT ORIGIN 2225 a /organism="unknown" 2038 c 2247 g 2081 t

Query Match Similarity 100.0%; Score 90; DB 6; Length 8591;
Best Local Similarity 100.0%; Pred. No. 9.2e-12; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAGACGGCGGTGGCGGGCAGAGCAAGGACCGGGATCCACTCCACA 60
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Qy 61 GCAGGCACCTCGTGTCCCCGCGAGGGTGC 90
Db 2361 GCAGGCACCTCGTGTCCCCGCGAGGGTGC 2390

RESULT 15

LOCUS Sequence 6 from patent US 5693478. 8591 bp DNA linear PAT 03-APR-1998

DEFINITION Sequence 6 from patent US 5693478.

ACCESSION I77052

VERSION I77052

KEYWORDS SOURCE Unknown

ORGANISM Unclassified

REFERENCE 1 (bases 1 to 8591)
AUTHORS Vitek, M.Peter, and Jacobsen, J.Steven.
TITLE Method of detecting amyloid precursor proteins patent: US 5693478-A 6 02-DEC-1997;
Location/Qualifiers

JOURNAL SOURCE

FEATURES SOURCE /organism="unknown"

BASE COUNT ORIGIN 2225 a /organism="unknown" 2038 c 2247 g 2081 t

Query Match Similarity 100.0%; Score 90; DB 6; Length 8591;
Best Local Similarity 100.0%; Pred. No. 9.2e-12; Mismatches 0; Indels 0; Gaps 0;

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Db 2301 GGAGACGGCGGTGGCGGGCAGAGCAAGGACCGGGATCCACTCCACA 2360

Qy 61 GCAGGCACCTCGTGTCCCCGCGAGGGTGC 90

Mon Jul 14 10:33:45 2003

us-09-910-757-1.rge

Page 7

Db ||||||| 2361 GCAGCGACTCGTGCCCCGGAGGGTGC 2390

Search completed: July 12, 2003, 21:33:47
Job time : 1080 secs